

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number  
**WO 2005/033189 A1**

(51) International Patent Classification<sup>7</sup>: C08J 7/04, B05D  
1/28, 3/14, G02F 1/1337, C09D 4/00

Cork (IE). REED, Samantha [GB/GB]; 2 Burreed Close,  
Waters Edge, St Mellons, Cardiff, CF3 0RL (GB).

(21) International Application Number:  
PCT/EP2004/011359

(74) Agents: DONLAN, Andrew, M. et al.; Dow Coming Lim-  
ited, Cardiff Road, Barry CF63 2YL (GB).

(22) International Filing Date:  
30 September 2004 (30.09.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0323295.6 4 October 2003 (04.10.2003) GB

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): DOW  
CORNING CORPORATION [US/US]; 2200 W.  
Salzburg Road, Midland, MI 48611 (US).

(72) Inventors; and


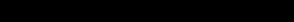


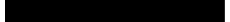
(75) Inventors/Applicants (*for US only*): DRAKE, Robert  
[GB/GB]; 180 Westbourne Road, Penarth CF64 5BR (GB).  
SURGENOR, Avril [GB/GB]; 7 Gateside Close, Cardiff  
CF23 8PB (GB). REES, Sian, Beverley [GB/US]; 3789  
East Acacia Drive, Midland, MI 48642 (US). HANNING-  
TON, John [GB/US]; 3789 East Acacia Drive, Midland,  
MI 48642 (US). O'HARE, Lesley, Ann [GB/IE]; The  
Millers House, The Maltings, Ballinacurra, Midleton, Co

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: DEPOSITION OF THIN FILMS

Preparation of Stamp	Micro-contact Printing
 A	 D
 B	 E
 C	

(57) Abstract: A method of applying a patterned thin-film onto a substrate comprising the steps of plasma treating the substrate. Applying a liquid coating material, comprising one or more compounds selected from the group of organopolysiloxane polymers, organopolysiloxane oligomers, siloxane resins and polysilanes, onto the substrate surface, by a soft lithographic printing technique, preferably microcontact printing to form a patterned film thereon. Where required any residual liquid coating material may be removed from the substrate surface. The process does not require the liquid coating material undergo a curing step such as is required in Decal Transfer Microlithography techniques. Any suitable form of plasma treatment may be used to activate the substrate prior to printing.

WO 2005/033189 A1